

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/082875 A3

(51) International Patent Classification⁷: **C07D 305/14**

(21) International Application Number:
PCT/US2005/005953

(22) International Filing Date: 24 February 2005 (24.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/785,422 24 February 2004 (24.02.2004) US
10/790,622 1 March 2004 (01.03.2004) US

(71) Applicant (for all designated States except US): **PHYTO-
GEN LIFE SCIENCES INC.** [CA/CA]; 1527 Cliveden
Avenue, Delta, British Columbia V3M 6P7 (CA).

(71) Applicant (for ZW only): **PHYTOGEN INC.** [US/US];
P.O. Box 1985, 1808 Benson Road, Point Roberts, Wash-
ington 98281 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **NAIDU, Ragina**
[CA/CA]; 3768 Brandon Street, Burnaby, British Colum-
bia V5G 2P2 (CA).

(74) Agents: **HAN, Hai** et al.; Seed Intellectual Property Law
Group PLLC, Suite 6300, 701 Fifth Avenue, Seattle, Wash-
ington 98104-7092 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the International search report:
17 November 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: SEMI-SYNTHESIS OF TAXANE INTERMEDIATES AND AZIRIDINE ANALOGUES AND THEIR CONVERSION
TO PACLITAXEL AND DOCETAXEL

(57) Abstract: A process is provided for the semi-synthesis of taxane intermediates and aziridine analogues of cephalomanne and
baccatin III intermediates, and the conversion of such intermediates and analogues to paclitaxel and docetaxel.



WO 2005/082875 A3